

1711

Attorney Docket No.  
D/A1656

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Jean A. Hough

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of Beng S. Ong et al.

Group Art Unit: 1711

Application No.: 10/042,357

Examiner: Duc Truong

Filed: January 11, 2002

For: POLYTHIOPHENES AND DEVICES THEREOF

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**INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 C.F.R. 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) and information listed on the attached PTO-1449 Form. One legible copy of each is attached to the PTO-1449 Form. It is respectfully requested that the references and information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of the above application (which is not a CPA), **OR** (b) before the mailing date of a first Office Action on the merits. *No certification or fee is required.*
- 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date **AND** after the date of the first Office Action on the merits, but before the mailing date of a Final Rejection, Notice of Allowance, or other action that closes prosecution. Please debit Xerox Corporation Deposit Account 24-0025 in the amount of \$180.00 in payment of the fee under 37 C.F.R. 1.17(p). *(A copy of this paper is attached.)*
- 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance; **AND**
  - a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1); **(OR)**

- b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c), more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2)
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  - a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1); (**OR**)
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- 5. Per 37 C.F.R. 1.98(a)(3), a concise explanation of the relevance of each of any submitted item that is NOT in the English language is either enclosed herewith, or incorporated in the application specification.
- 6. A copy of an English language version of an above-referenced counterpart foreign application search report is attached.
- 7. Copies of some or all of the subject references were cited by, or submitted to the Office in related parent Application No. , filed , which is relied upon under 35 U.S.C. §120. Thus, copies of these references are not attached (except for copies of cited pending applications). 37 C.F.R. §1.98(d).
- 8. A copy of each copending application recited in the parent application of paragraph 7 above, and/or a copy of other related copending applications, is enclosed.



Eugene O. Palazzo  
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Date 05/30/2003

## FOREIGN PATENT DOCUMENTS

|  | country | document number | publication date | name of patentee or applicant | translation y/n |
|--|---------|-----------------|------------------|-------------------------------|-----------------|
|  | EP      | 0 402 269 A1    | 12/12/1990       | Fichou et al.                 | N               |
|  | WO      | 94 15368 A      | 7/7/1994         | Hadzioannou et al.            | Y               |
|  | EP      | 0 260 541 A2    | 3/23/1988        | Jenekhe et al.                | Y               |

**OTHER DOCUMENTS (Including Author (in CAPS), Title, Publication Date, Pages, etc.)**

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|  | MCCULLOUGH, R.D., "The Chemistry of Conducting Polythiophenes", <i>Advanced Materials</i> , vol. 10, no. 2, 1998, pages 93 - 116.  |
|  | ANDERSSON, M.R et al., "Substituted Polythiophenes Designed for Optoelectronic Devices and Conductors", <i>J. Mater. Chem</i> , vol. 9, 1999, pages 1933 - 1940.   |
|  | SATO, M; HIROI, M., "Preparation of Long Alkyl-substituted Oligothiophenes", <i>Chemistry Letters</i> , no. 6, June 1994, pages 985 - 988.   |
|  | VAN HUTTEN, P.F. et al., "Structure of thiophene-Based Regioregular Polymers and Block Copolymers and Its Influence on Luminescence Spectra", <i>J. Phys. Chem</i> , vol. 99, 1995, pages 3218 - 3224.     |
|  | BAUERLE, P. et al., "Synthesis and Structural Characterization of Alkyl Oligothiophenes - The First Isomerically Pure Dialkylsexithiophene", <i>J. Chem. Soc. Perkin Trans. 2</i> , 1993, pages 489 - 494. |

**EXAMINER**

**DATE CONSIDERED**

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.